Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

12

to the first management system.

(currently amended) A system for allocating resources to enable provision 1 2 of different levels of service for different users of a network having a plurality of nodes at which routers are placed to direct information along various paths, the plurality of nodes including a 3 4 first node, the system comprising: a first allocation of resources for the plurality of nodes, the first allocation being 5 made by a first management system external to the plurality of nodes that manages at least part 6 7 of the network; and 8 a second allocation of resources [[for]] at the first node, the second allocation being a local allocation, the second allocation being made by a second management system 9 having a limited capability compared to the first management system and usable by the first node 10 in accordance with priorities determined at the <u>first</u> node. 11 (original) A system as in claim 1 further comprising a flow control table 1 2. at the node operating under control of the second management system for storing entries which 2 each include: 3 source addresses representative of at least one source of information arriving at 4 5 the input port; destination addresses representative of at least one of the destinations to which the 6 arriving information is to be sent from the output port; 7 priority information for each address consisting of a capability of at least two 8 different priorities for controlling the forwarding of information arriving from the source to the 9 10 destination; and wherein with the priority information is changeable at the node without reference 11

(previously presented) A system as in claim 2 wherein the system 1 3. includes a router for switching information and a controller coupled to the router for storing the 2 3 flow control table and controlling the router in response thereto. (previously presented) A system as in claim 3 wherein the priority 4. 1 2 information includes default priority information used to control information which does not 3 otherwise have an entry in the flow control table. (original) A system as in claim 3 wherein the router has a capacity and 5. 1 2 not all of the capability of the router is allocated by the controller. (original) A system as in claim 5 wherein the unallocated portion of the 1 6. 2 capacity is reserved for use as a virtual private network. 7. (original) A system as in claim 6 wherein the controller manages the flow 1 2 control table using two application program interfaces. (original) A system as in claim 7 wherein the applications program 1 8. interfaces include a first one for managing default priority information for a longer term usage, 2 and a second one for managing the remaining entries of the flow control table for a shorter term 3 4 usage. (original) A system as in claim 8 wherein the first and second applications 9. 1 program interfaces are under control of a network management system. 2 (original) A system as in claim 9 wherein the network management 10. 1 2 system is controlled by a network service provider. (original) A system as in claim 9 wherein the first applications program 1 11. interface is controlled by a network service provider and the second applications program 2 interface is controlled by a provider of the source of information. 3

1	12. (original) A system as in claim 11 wherein the controller manages the
2	flow control table using a single applications program interface.
1	13. (original) A system as in claim 12 wherein the applications program
2	interface manages default priority information for longer term usage and manages the remaining
3	entries of the flow control table for shorter term usage.
1	14. (currently amended) In a system for dynamically allocating resources to
2	enable provision of different levels of service for different users of a network having nodes at
3	which routers are placed to direct information along various paths, a method comprising:
4	allocating a first level of service from a remote source for a plurality of nodes, the
5	plurality of nodes including a first node;
6	allocating a second level of service from a local source for at the first node, the
7	second level of service using resources available from the first level of service;
8	receiving information at an input port from a source;
9	storing in a flow control table entries which include source addresses
10	representative of a source of information arriving at the input port, destination addresses
11	representative of a destination to which the arriving information is to be sent, and priority
12	information for each source address, which priority information includes at least two different
13	priorities; and
14	forwarding information arriving from the source to the destination address with a
15	priority based upon the priority information in the flow control table.
1	15. (original) A method as in claim 14 wherein the method further comprises
2	using a controller coupled to the router to store the flow control table and controlling the router
3	in response thereto.

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- 1 16. (original) A method as in claim 15 wherein the method further comprises 2 using default priority information to control arriving information which does not otherwise have 3 an entry in the flow control table.
- 1 17. (original) A method as in claim 16 wherein the router has a capacity; and 2 the method comprises using the controller to allocate less than all of the capacity of the router.
- 1 18. (original) A method as in claim 17 wherein the method further comprises 2 reserving unallocated capacity of the router for use as a virtual private network.
 - 19. (original) A method as in claim 18 wherein the method further comprises using applications program interfaces to allow the controller to manage the flow control table.
 - 20. (original) A method as in claim 19 wherein method further comprises using a first applications program interface to manage default priority information for longer term usage, and using a second applications program interface to manage remaining entries of the flow control table for shorter term usage.
 - 21. (original) A method as in claim 20 further comprising using a network management system to control the first and second applications program interfaces.
- 1 22. (original) A method as in claim 21 further comprising using a network 2 service provider to control the network management system.
 - 23. (original) A method as in claim 22 further comprising using a network service provider to control the first applications program interface and using a provider of the source of information to control the second applications program interface.
- 1 24. (original) A method as in claim 23 further comprising using a single 2 applications program interface to manage the flow control table

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Appl. No. 09/925,182 Amdt. sent March 14, 2007 Amendment under 37 CFR 1.116 Expedited Procedure Examining Group 2137

- 1 25. (original) A method as in claim 24 further comprising using the
- 2 applications program interface to manages default priority information for longer term usage and
- 3 using the remaining entries of the flow control table to manage for shorter term usage.